

U.S.S.N. 10/709,916

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81093147 (FGT 1901 PA)

In The Specification:

Please replace paragraph [0036] with the following amended paragraph:

[0036] Referring now to Figures 4A-4D, experimental results of magneto-resistive sensors sensing a target vehicle passing a host vehicle are illustrated. As illustrated, the magneto-resistive sensors 16, 18 can easily determine the presence of the target vehicle in a host vehicle blind-spot and detect the relative motion of the vehicles, which may be used in threat detection algorithms. Figure 4A is a graph of magneto-resistive sensor properties of a sensor ~~[[is]]~~ in a westward direction, perpendicular to a direction of travel of a passing vehicle. Figure 4B is a graph of magneto-resistive sensor properties of the sensor of Figure 4A in a southward direction, opposing a direction of travel of the passing vehicle. Figure 4C is a graph of magneto-resistive sensor properties of the sensor of Figure 4A in an upwards direction, perpendicular to the earth over which the vehicle is passing. Figure 4D is a graph of magneto-resistive sensor properties of the sensor of Figure 4A wherein a magnitude of the passing vehicle is illustrated.

Please replace paragraph [0037] with the following amended paragraph:

[0037] Referring to Figure 5, a flow chart 100 of the operation of the blind-spot warning system, in accordance with another embodiment of the present invention, is illustrated. Logic starts in operation block 102 when a target vehicle or object is sensed ~~[[in]]~~ by the sensor 16 or 18.

Please replace paragraph [0038] with the following amended paragraph:

[0038] In operation block 104, the vehicle gateway bus 39 receives vehicle control signals 32 and generates therefrom ~~[[a]]~~ vehicle bus signals.